Kramer Electronics, Ltd.

USER MANUAL

Model:

PS-1DVI

DVI Power Supply

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1 Introduction

Welcome to Kramer Electronics! Since 1981, Kramer Electronics has been providing a world of unique, creative, and affordable solutions to the vast range of problems that confront the video, audio, presentation, and broadcasting professional on a daily basis. In recent years, we have redesigned and upgraded most of our line, making the best even better!
Our 1,000-plus different models now appear in 11 groups[1] that are clearly defined by function.

Congratulations on purchasing your MultiTOOLS **PS-1DVI** *DVI Power Supply*, which is ideal for providing power to long cables, when the standard 5V power is not available from a DVI graphics card.

The package includes the following items:

- **PS-1DVI** *DVI Power Supply*
- Power adapter (5V DC Input)
- DVI copper cable
- This user manual[2]

2 Getting Started

We recommend that you:

- Unpack the equipment carefully and save the original box and packaging materials for possible future shipment
- Review the contents of this user manual
- Use Kramer high performance high resolution cables[3]

3 Overview

The **PS-1DVI** is used to power DVI for Optical DVI Extension Cables[3]. Optical DVI cables, such as the Kramer **C-FODM/FODM-328**, require a +5V internal power supplied through a DVI pin (#14) from the graphic card. When the computer system is incapable of supplying 500mA, the **PS-1DVI** provides the power to the cable's Tx/Rx modules.

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1 GROUP 1: Distribution Amplifiers; GROUP 2: Switchers and Matrix Switchers; GROUP 3: Control Systems; GROUP 4: Format/Standards Converters; GROUP 5: Range Extenders and Repeaters; GROUP 6: Specialty AV Products; GROUP 7: Scan Converters and Scalers; GROUP 8: Cables and Connectors; GROUP 9: Room Connectivity; GROUP 10: Accessories and Rack Adapters; GROUP 11: Sierra Products

2 Download up-to-date Kramer user manuals from our Web site: http://www.kramerelectronics.com

3 The complete list of Kramer cables is on our Web site at http://www.kramerelectronics.com

The Kramer MultiTOOLS **PS-1DVI** *DVI Power Supply*:

- Allows you to join two DVI-D or DVI-I signal cables even when the graphics card cannot supply the required power for the extension cables
- Powers devices upstream via a copper DVI cable
- Is compatible with either digital and/or analog signals
- Utilizes DUAL LINK technology, enabling high frequency signals up to 3Gbps, and therefore the switching of resolutions higher than UXGA

To achieve the best performance:

- Connect only good quality connection cables, thus avoiding interference, deterioration in signal quality due to poor matching, and elevated noise levels (often associated with low quality cables)
- Avoid interference from neighboring electrical appliances that may adversely influence signal quality and position your Kramer **PS-1DVI** away from moisture, excessive sunlight and dust

Figure 1 and Table 1 define the **PS-1DVI** *DVI Power Supply*:

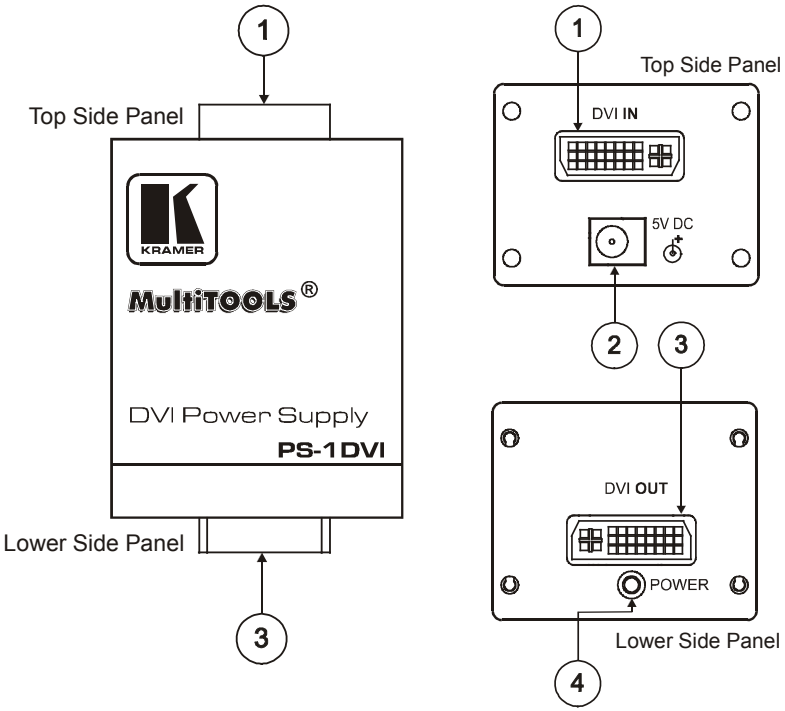

Figure 1: PS-1DVI DVI Power Supply

Table 1: PS-1DVI DVI Power Supply Features

#	Feature	Function
1	DVI ***IN*** Connector	Connect to the DVI source
2	*5V DC*	+5V DC connector for powering the unit
3	DVI ***OUT*** Connector	Connect to the DVI acceptor
4	*POWER* LED	Illuminates when receiving power

4 Connecting a PS-1DVI DVI Power Supply

To connect the **PS-1DVI**, do the following:

1. Connect the DVI graphics source (for example, a laptop) to the DVI IN connector on the **PS-1DVI**.
2. Connect the DVI OUT connector to the DVI acceptor (for example, a plasma display).
3. Connect the 5V DC power adapter to the power socket on the **PS-1DVI** and connect the adapter to the mains electricity.

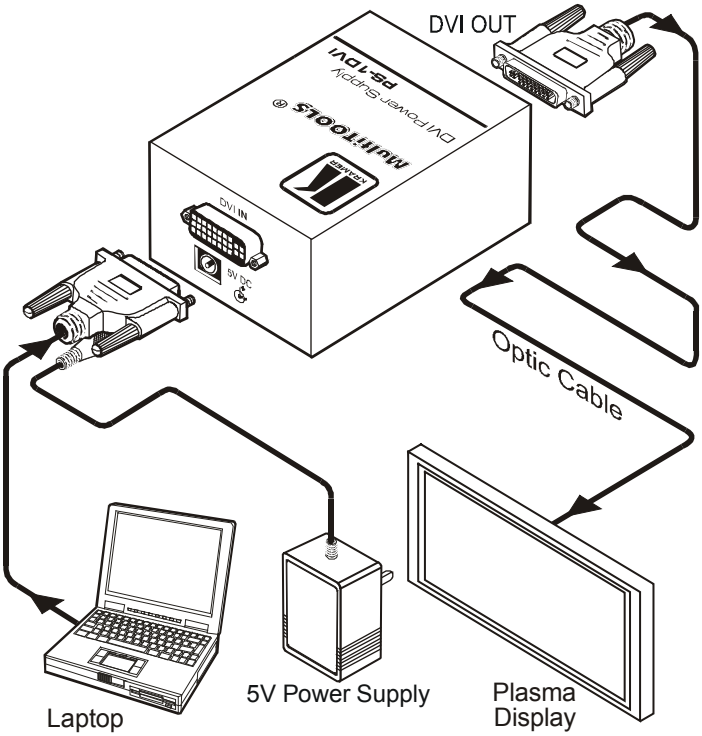

Figure 2: Connecting the PS-1DVI DVI Power Supply

5 Technical Specifications

Table 2 includes the technical specifications:

Table 2: Technical Specifications[1] *of the PS-1DVI*

INPUT:	1 DVI, 1.2Vpp on a DVI-I Molex 24pin female connector; DDC signal 5Vpp (TTL)
OUTPUT:	1 DVI, 1.2Vpp on DVI-I Molex 24pin female connector; DDC signal 5Vpp (TTL)
POWER SOURCE:	5V DC
DIMENSIONS[2]:	5.32cm x 4.36cm x 7.25cm (2.09" x 1.72" x 2.85") W, D, H
WEIGHT:	0.15kg. (0.55lbs.) approx.
ACCESSORIES:	DVI cable, power adapter

1 Specifications are subject to change without notice

2 Some versions may be smaller in size

LIMITED WARRANTY

Kramer Electronics (hereafter *Kramer*) warrants this product free from defects in material and workmanship under the following terms.

HOW LONG IS THE WARRANTY

Labor and parts are warranted for three years from the date of the first customer purchase.

WHO IS PROTECTED?

Only the first purchase customer may enforce this warranty.

WHAT IS COVERED AND WHAT IS NOT COVERED

Except as below, this warranty covers all defects in material or workmanship in this product. The following are not covered by the warranty:

1. Any product which is not distributed by Kramer, or which is not purchased from an authorized Kramer dealer. If you are uncertain as to whether a dealer is authorized, please contact Kramer at one of the agents listed in the Web site www.kramerelectronics.com.
2. Any product, on which the serial number has been defaced, modified or removed, or on which the WARRANTY VOID IF TAMPERED sticker has been torn, reattached, removed or otherwise interfered with.
3. Damage, deterioration or malfunction resulting from:
   i) Accident, misuse, abuse, neglect, fire, water, lightning or other acts of nature
   ii) Product modification, or failure to follow instructions supplied with the product
   iii) Repair or attempted repair by anyone not authorized by Kramer
   iv) Any shipment of the product (claims must be presented to the carrier)
   v) Removal or installation of the product
   vi) Any other cause, which does not relate to a product defect
   vii) Cartons, equipment enclosures, cables or accessories used in conjunction with the product

WHAT WE WILL PAY FOR AND WHAT WE WILL NOT PAY FOR

We will pay labor and material expenses for covered items. We will not pay for the following:

1. Removal or installations charges.
2. Costs of initial technical adjustments (set-up), including adjustment of user controls or programming. These costs are the responsibility of the Kramer dealer from whom the product was purchased.
3. Shipping charges.

HOW YOU CAN GET WARRANTY SERVICE

1. To obtain service on you product, you must take or ship it prepaid to any authorized Kramer service center.
2. Whenever warranty service is required, the original dated invoice (or a copy) must be presented as proof of warranty coverage, and should be included in any shipment of the product. Please also include in any mailing a contact name, company, address, and a description of the problem(s).
3. For the name of the nearest Kramer authorized service center, consult your authorized dealer.

LIMITATION OF IMPLIED WARRANTIES

All implied warranties, including warranties of merchantability and fitness for a particular purpose, are limited in duration to the length of this warranty.

EXCLUSION OF DAMAGES

The liability of Kramer for any effective products is limited to the repair or replacement of the product at our option. Kramer shall not be liable for:

1. Damage to other property caused by defects in this product, damages based upon inconvenience, loss of use of the product, loss of time, commercial loss; or:
2. Any other damages, whether incidental, consequential or otherwise. Some countries may not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from place to place.

NOTE: All products returned to Kramer for service must have prior approval. This may be obtained from your dealer.

This equipment has been tested to determine compliance with the requirements of:

EN-50081:	"Electromagnetic compatibility (EMC); generic emission standard. Part 1: Residential, commercial and light industry"
EN-50082:	"Electromagnetic compatibility (EMC) generic immunity standard. Part 1: Residential, commercial and light industry environment".
CFR-47:	FCC* Rules and Regulations: Part 15: "Radio frequency devices Subpart B Unintentional radiators"

CAUTION!

- Servicing the machines can only be done by an authorized Kramer technician. Any user who makes changes or modifications to the unit without the expressed approval of the manufacturer will void user authority to operate the equipment.
- Use the supplied DC power supply to feed power to the machine.
- Please use recommended interconnection cables to connect the machine to other components.

  * FCC and CE approved using STP cable (for twisted pair products)

For the latest information on our products and a list of Kramer distributors, visit our Web site: www.kramerelectronics.com, where updates to this user manual may be found.
We welcome your questions, comments and feedback.

Safety Warning:
Disconnect the unit from the power supply before opening/servicing.

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P/N: 2900-000122 REV 2